

US-PAT-NO: 4208090
DOCUMENT-IDENTIFIER: US 4208090 A
TITLE: Reflector structure
DATE-ISSUED: June 17, 1980

US-CL-CURRENT: 359/514, 359/531 , 359/532 , 404/14

APPL-NO: 05/ 753132

DATE FILED: December 22, 1976

PARENT-CASE:

This is a continuation of application Ser. No. 625,723, filed Mar. 24, 1967, now abandoned.

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Claims Text - CLTX (6):

6. A reflector structure for reflecting light back toward the source thereof, said reflector structure comprising a one-piece body of transparent material having a substantially smooth light receiving front face, said body having therein a plurality of rectangular recesses extending from the rear thereof toward said front face and each defining a rectangular cell surrounded by a support wall, the rear faces of said support walls defining a substantially continuous support surface extending substantially through-out the rear of said body, and a plurality of rectangular retrodirective cube corner reflector elements on said body in said recesses and oriented therein to reflect light falling upon said front face, said reflector elements reflecting from said reflector structure light falling upon said front face in the area thereof corresponding to said cells and reflecting the light back toward the source thereof to render said reflector structure highly visible at night.

Claims Text - CLTX (8):

8. A reflector structure for reflecting light back toward the

source
thereof, said reflector structure comprising a one-piece body of
transparent
material having a substantially smooth light receiving front face, said
body
having therein a plurality of rectangular recesses extending from the
rear
thereof toward said front face and each defining a cell surrounded by a
support
wall, the rear faces of said support walls defining a substantially
continuous
support surface extending substantially throughout the rear of said
body, a
plurality of rectangular retrodirective cube corner reflector elements
on said
body in said recesses and oriented therein to reflect light falling
upon said
front face, said reflector elements reflecting from said reflector
structure
light falling upon said front face in the area thereof corresponding to
said
cells and reflecting the light back toward the source thereof to render
said
reflector structure highly visible at night, and a backing member
covering
substantially all of the rear of said body and hermetically sealed to
said
support surface along all portions thereof thus hermetically to seal
each of
said cells.